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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|---------------|----------------------|-------------------------|------------------|
| 10/816,569 | 04/01/2004 | Arman Gasparyan | 4-20-11-6 | 1230 |
| 75 | 90 12/03/2004 | • | EXAM | INER |
| Lucent Technologies Inc. Docket Administrator - Room 3J-219 101 Crawfords Corner Road | | | LEE, KYUNG S | |
| | | | ART UNIT | PAPER NUMBER |
| Holmdel, NJ (| 07733-3030 | | 2832 | |
| | | | DATE MAILED: 12/03/2004 | 1 |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | Application No. | Applicant(s) | | |
|---|---|---|--|--|--|
| Office Action Summary | | 10/816,569 | GASPARYAN ET AL. | | |
| | | Examiner | Art Unit | | |
| | | Kyung S. Lee | 2832 | | |
| Period fo | The MAILING DATE of this communication ap or Reply | pears on the cover sheet with the o | correspondence address | | |
| THE - Exte after - If the - If NC - Failu Any | ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. Properties of the period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statutively received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b). | 136(a). In no event, however, may a reply be till by within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE | mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133). | | |
| Status | | | | | |
| 1)⊠ | Responsive to communication(s) filed on <u>06 J</u> | luly 2004. | | | |
| · | | s action is non-final. | | | |
| 3) | Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. | | | | |
| Disposit | ion of Claims | | | | |
| 5)□ 6)⊠ | Claim(s) 1-11 is/are pending in the application 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) 1-11 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or | awn from consideration. | | | |
| Applicat | ion Papers | | | | |
| 10)⊠ | The specification is objected to by the Examina The drawing(s) filed on <u>01 April 2004</u> is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the E | n)⊠ accepted or b)□ objected to e drawing(s) be held in abeyance. Se etion is required if the drawing(s) is ob | ee 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d). | | |
| Priority (| under 35 U.S.C. § 119 | | | | |
| a) | Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority documen application from the International Burea See the attached detailed Office action for a list | ts have been received. ts have been received in Applicat prity documents have been receiv nu (PCT Rule 17.2(a)). | tion No ed in this National Stage | | |
| | e of References Cited (PTO-892) | 4) 🔲 Interview Summary | y (PTO-413) | | |
| 2) Notice 3) Inform | e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 1104. | Paper No(s)/Mail D | | | |

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DETAILED ACTION

Claim Objections

· 1. Claims 5 and 6 are objected to because of the following informalities: Claim 6 should separated from claim 5. Please see claim 5, line 4. Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Kondoh et al. (6,323,447).

Kondoh et al. teaches and electrical switch comprising:

- a first conducting droplet 321 (figs. 8 and 9) having a first voltage;
- a second conducting droplet 322 having a second voltage;
- a means 311 (comprising of 311 and 312) for reversibly contacting the first and the second droplet by providing a voltage differential (to line I1 and I2) to a first electrode 351 and a second electrode 352.

Regarding claim 3, the first electrode 351 is electrically insulated from the first droplet.

Regarding claim 4, second voltage provided to a second electrode 352. The second electrode 352 is electrically insulated from the second droplet.

Regarding claim 5, the means for reversing 311 is a heat source (heated by electrode 351).

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Regarding claims 6-8, a first fluid 381 surrounds 321 and a second fluid 382 surrounds 322 (fig. 9).

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all 4. obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 9-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kondoh et al. Kondoh et al. teaches the claimed invention except for the method of using the switch device. Steps of use as claimed are deemed obvious in view of the functions of the structure in the combination discussed above.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kyung S. Lee whose telephone number is (571) 272-1994. The examiner can normally be reached on M-TH 5:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin G. Enad can be reached on (571) 272-1990. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kyung S. Lee

Primary Examiner
Art Unit 2832

11/27/04